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IS 9891-2 (1981): Edge Connectors for Printed Wiring Board and Insulated Board Having Contact Pitch 2.54 mm, Part 2: Non-polarised Plug Types 9891 IS-01-11/25/33-W-A-0.75 [LITD 3: Electromechanical COmponents and Mechnical Structures for Electronic Equipment]

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IS : 9891 (Part II) - 1981

(Reaffirmed 2004)

Indian Standard

SPECIFICATION FOR EDGE CONNECTORS FOR PRINTED WIRING BOARD AND INSULATED BOARD HAVING CONTACT PITCH 2·54 mm

PART II NON-POLARISED PLUG TYPES

9891 IS-01-11/25/33-W-A-0·75

Connectors for Electronic Equipment Sectional Committee, LTDC 16 [Ref : Doc : LTDC 16 (525)]

0. General — This standard shall be read in conjunction with IS : 9891 (Part I)-1981 'Specification for edge connectors for printed wiring board and insulated board having contact pitch 2·54 mm: Part 1 Test schedule and requirements'.

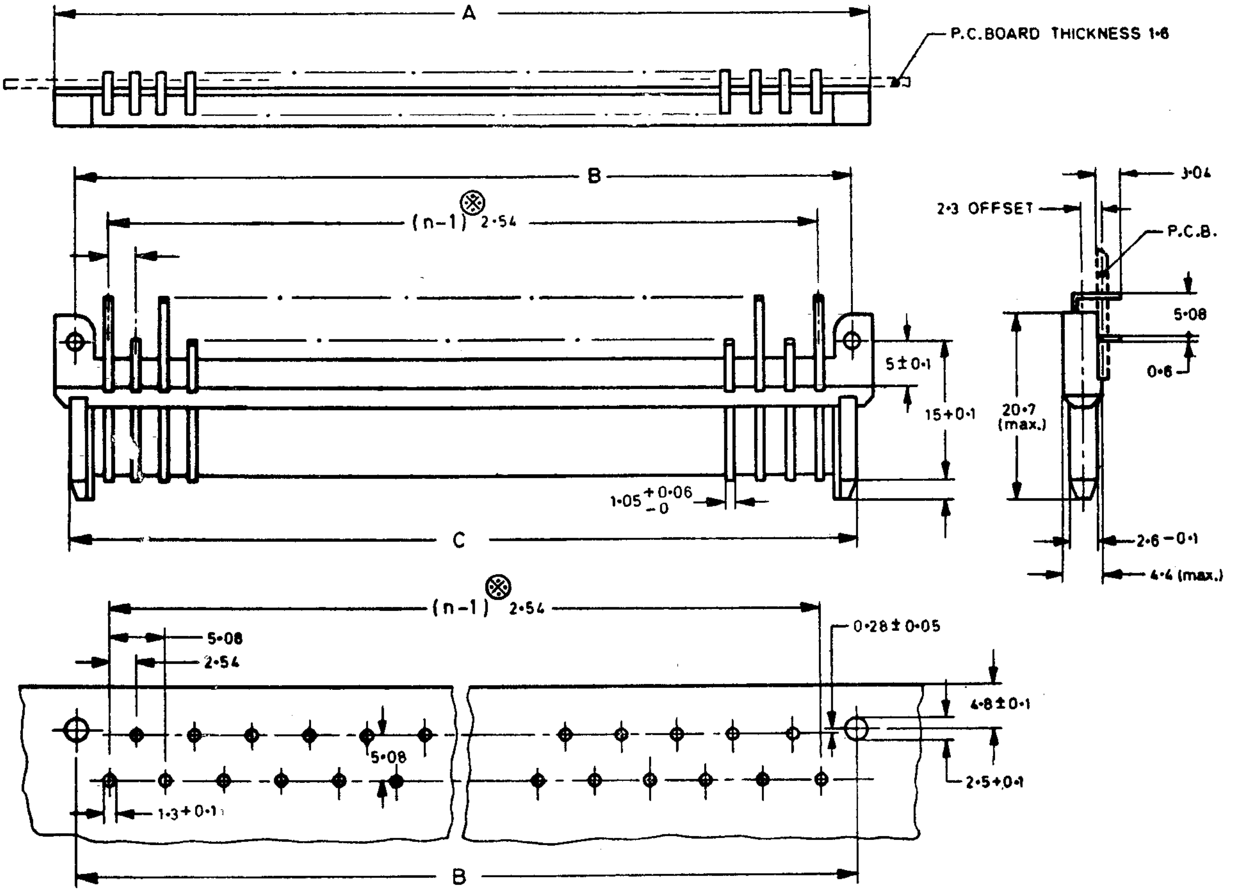
1. Type Designation — The types of connectors covered in this standard are designated [*see* 4.4 of IS : 9891 (Part I)-1981] as given below:

a) 9891 IS-01-11-W-A-0·75

b) 9891 IS-01-25-W-A-0·75

c) 9891 IS-01-33-W-A-0·75

2. Outline and Dimensions — The outline and dimensions shall be according to Fig. 1 and Table 1.



⊗ n denotes the number of contacts.

All dimensions in millimetres.

FIG. 1 OUTLINE

Adopted 28 October 1981

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[redacted] Gr 1

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TABLE 1 DIMENSIONS

Types of Connector	Dimensions in mm		
	A	*B*	*C*
1	2	3	4
9891 IS-01-11-W-A-0·75	36·40	31·75	32·22
9891 IS-01-25-W-A-0·75	72·00	67·31	68·78
9891 IS-01-33-W-A-0·75	92·30	87·63	89·10

3. Material, Finish and Life Requirement — The material, finish and life requirement shall be as under:

a) Material — Polycarbonate,

b) Contacts — Brass/suitable non-ferrous material copper base alloy,

c) Finish — 0·75 micron gold plating or the thickness of the plating as agreed between the purchaser and manufacturer (supplier),

d) Mechanical life — 400 mating cycles or 6 000 mating cycles for reinforced contacts.

4. Climatic Category — The climatic characteristics shall be as given below:

a) Temperature severity	—40 to + 125°C
b) Damp heat severity	21 days
c) Air pressure (low)	4·4 kPa
d) Acceleration steady state	170 m/s^2
e) Vibration	10 — 2 000 Hz
f) Shock	500 m/s^2

5. Electrical Rating — The rated voltage shall be 250V dc and the rated current shall be 4 A dc.

6. Test Requirement — The engagement and disengagement force shall be as under:

Types of Connector	*Engagement Force*	*Disengagement Force*
9891 IS-01-11-W-A-0·75	30 N (*Max*)	1·6 N (*Min*)
9891 IS-01-25-W-A-0·75	70 N (*Max*)	3·75 N (*Min*)
9891 IS-01-33-W-A-0·75	90 N (*Max*)	4·95 N (*Min*)

7. Tests — *See* 8 of IS : 9891 (Part I)-1981.

8. Marking — *See* 7 of IS : 9891 (Part I)-1981.

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